HES 2001-IP-003428

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Attorney Docket Number

DECLARATION FO				
DESIG		First Named Invento	r B. Ragh	ava Reddy
PATENT APPL		COMPLETE IF KNOWN		
(37 CFR 1		Application Number		
Declaration	Declaration	Filing Date		
Submitted OR with Initial	Submitted after Initial Filing (surcharge	Art Unit		
Filing	(37 CFR 1.16 (e)) required)	Examiner Name		
As the below named inventor, I her	reby declare that:			
My residence, mailing address, and o	citizenship are as stated belo	ow next to my name.		
I believe I am the original and first inv	•	·	ch a patent is soug	tht on the invention entitled:
Methods of Generating	Gas In Well Fluids			
				<u> </u>
the specification of which	(Title of the li	nvention)		
the specification of which				
is attached hereto				
OR				
was filed on (MM/DD/YYYY)		as United States A	pplication Ņumber	or PCT International
L				
Application Number	and was amende	ed on (MM/DD/YYYY)		(if applicable).
			n de la bandia a	(t t - t - t
I hereby state that I have reviewed and any amendment specifically referred to	d understand the contents o contents o	or the above identified specif	ication, including t	the claims, as amended by
I acknowledge the duty to disclose info	ormation which is material to	patentability as defined in	37 CFR 1.56, inclu	iding for continuation-in-part
applications, material information whic international filing date of the continua		n the filing date of the prior	application and the	e national or PC1
I hereby claim foreign priority benefits breeder's rights certificate(s), or 365(a	under 35 U.S.C. 119(a)-(d)	or (f), or 365(b) of any fore	ign application(s)	for patent, inventor's or plant
States of America, listed below and h breeder's rights certificate(s), or any	ave also identified below, b	by checking the box, any fo	reign application f	for patent, inventor's or plant
claimed.	T The Transcription applicant			
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO
			Ħ	
			H	
	1	ı	6 I	1

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: Customer Number or Bar Code Label OR Correspondence address below				
	2885)		
Name	PATENT TRADEMA	RK OFFICE	3	
Address				
Address		T		
City		State		ZIP
City		_ ····		
Country	Telephone			Fax
I hereby declare that all statements made herein of my are believed to be true; and further that these statem made are punishable by fine or imprisonment, or both, validity of the application or any patent issued thereon.	ients were made with , under 18 U.S.C. 10	h the kn	owledge that willful false	statements and the like so
NAME OF SOLE OR FIRST INVENTOR :	A petition h	as bee	en filed for this unsig	ned inventor
Given Name B. Raghava (first and middle [if any])		Family or Sur	y Name Reddy mame	
Inventor's B. Raghara Robbs Signature B. Raghara Robbs				
Duncan	ок	_	U.S.	India
Residence: City	State		Country	Citizenship
2013 Waverly Drive				
Duncan	OK		73533	U.S.
City	State		ZIP	Country
NAME OF SECOND INVENTOR:	A petition has	s been	filed for this unsigne	d inventor
Given Name Krishna M. (first and middle [if any]) Ravi Family Name or Surname				
Inventor's Krishna M. Rho Date MM 23,02				
Kingwood	TX	_	U.S.	U.S.
Residence: City	State		Country	Citizenship
Mailing Address 3407 Rambling Pines Drine				
Kingwood	TX		77345	U.S.
City	State		ZIP	Country
Additional inventors are being named on the 1	supplemental Additic	nal Inve	ntor(s) sheet(s) PTO/SB/	02A attached hereto.

PTO/SB/02A (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 1 of 2

Name of Additional Joint Inventor, if a	ny:		☐ A petitio	n has been filed	for th	nis unsigned inventor
James E. Given Name	<u>r</u>		Family Nan			
Inventor's Signature	Zi	t				Date 5/29/02
Duncan Residence: City		K ate	U.S. Country		T	U.S. Citizenship
1108 Plato Road #52 Mailing Address						
Mailing Address				_		
_{City} Duncan	Ok Sta		73533 ZIP	U.: Co	S. untr	у
Name of Additional Joint Inventor, if a	ny:	[A petition	has been filed fo	r this	s unsigned inventor
Frank Given Name			Family Nar			
Inventor's Signature Tunkfanon						Date 5 /29/92
Duncan Residence: City	Oł Sta		U.S. Country			U.S. Citizenship
2017 Woodcrest Mailing Address						
Mailing Address						
Duncan city	OK Sta		73533 ZIP	U.S Cou	S.	,
Name of Additional Joint Inventor, if a						unsigned inventor
Karen ^{Given} Name			amily Name Surname	Luke		
Inventor's Dr. K. hule						Date 05/28/02
Duncan Residence: City	OK State		U.S. Country			U.S. CANADIAN KI Citizenship
1403 North 12th Mailing Address	<u> </u>		Journal			Citizensinp
Mailing Address						
_{city} Duncan	OK State	9	73533 ZIP		U.S.	Intry

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/02A (10-00)
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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 2 of 2

Name of Additional Joint Inventor, if a	ny:	[☐ A petitio	n has been filed	for th	nis unsigned inventor
John L. Given Name			Family Nam		lr.	
Inventor's Signature A. Wenn	ر ر	2				Date 5-29-02
Marlow Residence: City	Ol Sta		U.S. Country		t	U.S. Citizenship
810 W. Seminole Mailing Address						
Mailing Address						
_{City} Marlow	OK Sta	(ite	73055 ZIP		S. ountr	у
Name of Additional Joint Inventor, if an	ıy:	Г	A petition	has been filed fo	or this	s unsigned inventor
Given Ricky A. Name			Family Nan			
Inventor's Ky U. Cap	1					Date 5-29-02
Comanche Residence: City	Ok Sta	ate	U.S. Country			U.S. Citizenship
Route 3, Box 272E Mailing Address						6
Mailing Address						
Comanche	OK Sta		73529 ZIP	U. Co	S.	,
Name of Additional Joint Inventor, if an						unsigned inventor
Given Name			mily Name Surname			
Inventor's Signature						Date
Residence: City	State	:e	Country			Citizenship
Mailing Address						
Mailing Address						
City	State	e	ZIP		Coı	ıntry

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PTO/SB/81 (09-03)
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POWER OF ATTORNEY and **CORRESPONDENCE ADDRESS INDICATION FORM**

Application Number		
Filing Date		
First Named Inventor	B. Raghava Reddy	<u>.</u>
Title	Methods of Generating Gas In	
Art Unit		
Examiner Name		
Attorney Docket Number	HES 2001-IP-003428U1C1	

I hereby appoint:	· · ·
Тпегеру арропп.	
Practitioners associated with the Customer Number:	
OR	
Practitioner(s) named below:	
Name	Registration Number
see attached	
as my/our attorney(s) or agent(s) to prosecute the application identified Trademark Office connected therewith.	above, and to transact all business in the United States Patent and
Please recognize or change the correspondence address for the above	identified application to:
The address associated with the above-mentioned Customer I	Number:
OR	
The address associated with Customer Number:	
OR	
Firm or Individual Name	
Address	
Address	
City	State Zip
Country Telephone	Fax
Lam the:	Fax
Applicant/Inventor.	
Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/S	96)
SIGNATURE of Applican	t or Assignee of Record
Name Craig W Roddy	
Signature Clarg w. Koddy	
Date 02-26-04	Telephone 580.251.3012
NOTE: Signatures of all the inventors or assignees of record of the entire interest of forms if more than one signature is required, see below*.	or their representative(s) are required. Submit multiple
*Total of forms are submitted.	

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Under the Paperwork Reduction Act of 1995, no pareons are required to respond to a coelection of information unless if contains a coelection of information unless if contains a

DECLARATION

REGISTERED PRACTITIONER INFORMATION (Supplemental Sheet)

Herm	Registration Number	Name	Registration Number
, , , , , , , , , , , , , , , , , , , ,			
Halliburton Energy Services, Inc. Practitioners		Baker Botts Practitioners	
William E. Shull	29,438	Mitchell D. Lukin	30,772
William M. Imwalle	35,904	Carey C. Jordan	47,646
Robert A. Kent	28,626	Paul R. Morico	35,960
Craig W. Roddy	36,256	lona Kaiser	53,086
John W. Wustenberg	35,415		
• •	,		
· · · · ·			
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	<u>.</u>		
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Perfor Hear Statement: This form is estimated to take 0.4 hours to complete. Time will very depending upon the needs of the included case. Any examinate on the account of Gase, you are expelled to complete the form about to the Chief Information Officer, Patent and Trademark To THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Westington, DC 20221.

Declaration - Registered Practitioner Information (Supplemental Sheet) (PTO/SB/02C)[1-1.4]

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STATEM	ENT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: B. Raghava Reddy et al.	
Application No./Patent No.: unknown	Filed/Issue Date: concurrently herewit
Entitled: Methods of Generating Gas In Well Fluids	
Halliburton Energy Services, Inc. (Name of Assignee)	, a <u>corporation</u> (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is: 1. the assignee of the entire right, title, and interest.	est; or
2. an assignee of less than the entire right, title at the extent (by percentage) of its ownership in the patent application/patent identified above by vertical entities.	terest is ———— %
	ent application/patent identified above. The assignment was recorded fice at Reel <u>12565</u> , Frame <u>901</u> , or for which a copy thereof is
OR	
B. [] A chain of title from the inventor(s), of the pate below:	ent application/patent identified above, to the current assignee as shown
1 From: ————————————————————————————————————	To:
The document was recorded in the Un	ted States Patent and Trademark Office at
	, or for which a copy thereof is attached.
2. From:	To:ted States Patent and Trademark Office at
The document was recorded in the Un	ited States Patent and Trademark Office at
	, or for which a copy thereof is attached.
From: The document was recorded in the United States	To:
The document was recorded in the Uni	ted States Patent and Trademark Office at, or for which a copy thereof is attached.
, i fame	, or for which a copy thereof is altabled.
[] Additional documents in the chain of tit	le are listed on a supplemental sheet.
[~] Copies of assignments or other documents in th [NOTE: A separate copy (i.e., the original assignment by submitted to Assignment Division in ac recorded in the records of the USPTO. See MP	nment document or a true copy of the original document) cordance with 37 CFR Part 3, if the assignment is to be
The undersigned (whose title is supplied below) is a $2-26-200\mathrm{M}$	
	Craig W. Roddy
Date	Typed or printed name
580.251.3012	Cary W. Fordy
Telephone number	Signature
	Senior Counsel
	Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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Chief Information Officer Washington, DC 20231 www.uspto.gov

HALLIBURTON ENERGY SERVICES CRAIG W. RODDY 2600 SOUTH SECOND STREET DUNCAN, OK 73536-0440

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RECORDATION DATE: 05/31/2002

REEL/FRAME: 012965/0901

NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

REDDY, B. RAGHAVA

DOC DATE: 05/29/2002

ASSIGNOR:

RAVI, KRISHNA M.

DOC DATE: 05/23/2002

ASSIGNOR:

GRIFFITH, JAMES E.

DOC DATE: 05/29/2002

ASSIGNOR:

ZAMORA, FRANK

DOC DATE: 05/29/2002

ASSIGNOR:

LUKE, KAREN

DOC DATE: 05/28/2002

ASSIGNOR:

DENNIS JR., JOHN L.

DOC DATE: 05/29/2002

ASSIGNOR:

COX, RICKY A.

DOC DATE: 05/29/2002

012965/0901 PAGE 2

ASSIGNEE:

HALLIBURTON ENERGY SERVICES, INC. 10200 BELLAIRE BOULEVARD HOUSTON, TEXAS 77072

SERIAL NUMBER: 10159590

PATENT NUMBER:

FILING DATE: 05/31/2002

ISSUE DATE:

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

06-12-2002



Form PTO-1595
(Rev. 03/01)

U.S. DEPARTMENT OF COMMERCE

OMB No. 0651-0027 (exp. 5/31/2002)	1688 U.S. Patent and Trademark Office
Tab settings ⇒ ⇒ ▼ ▼	Y Y Y .
	Please record the attached original documents or copy thereof.
Name of conveying party(ies):	2. Name and address of receiving party(ies)
B. Raghava Reddy; Krishna M. Ravi; James E. Griffith;	Name: Halliburton Energy Services, Inc.
Frank Zamora; Karen Luke; John L. Dennis, Jr.,	7
Ricky A. Cox	Internal Address:
Additional name(s) of conveying party(igs) attached? Yes No	
3. Nature of conveyance:	
Assignment Merger	Street Address: 10200 Bellaire Boulevard
Security Agreement Change of Name	
Other	
05/23/02 (Ravi) 05/28/02 (Luke)	City: Houston State: TX Zip: 77072
Execution Date: 05/29/02 (Reddy; Griffith; Zamora; Dennis, Jr.; Cox)	Additional name(s) & address(es) attached? Yes V No
4. Application number(s) or patent number(s):	11591
If this document is being filed together with a new application	cation, the execution date of the application is: 05/23/02
A. Patent Application No.(s)	B. Patent No.(s)
, , , , , , , , , , , , , , , , , , , ,	. ,
Additional numbers atta	ached? Yes No
	6. Total number of applications and patents involved:
concerning document should be mailed: Crain W. Roddy	7. Total fee (37 CFR 3.41)\$_40.00
Name: Craig W. Roddy	
Halliburton Energy Services	Enclosed
	Authorized to be charged to deposit account
	8. Deposit account number:
Street Address: 2600 South Second Street	
Street Address	08-0300
Duncan OK - 73536-0440	
City: Duncan State: OK Zip: 73536-0440	
DO NOT USE	THIS SPACE
9. Signature.	
	1 _
Craig W. Roddy	sign Roddy 5-30-02
Name of Person Signing	Signature Date
	sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:

06/11/2002 TDIAZ1 00000166 080300

Commissioner of Patents & Trademarks, Box Assignments 10159590 Washington, D.C. 20231

01 FC:581

40.00 CH



ASSIGNMENT

Whereas, I/We, B. Raghava Reddy, of Stephens County, Duncan, Oklahoma; Krishna M. Ravi of Harris County, Kingwood, Texas; James E. Griffith, of Stephens County, Duncan, Oklahoma; Frank Zamora of Stephens County, Duncan, Oklahoma; Karen Luke of Stephens County, Duncan, Oklahoma; John L. Dennis, Jr., of Stephens County, Marlow, Oklahoma and Ricky A. Cox, of Stephens County, Comanche, Oklahoma have invented METHODS OF GENERATING GAS IN WELL FLUIDS for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on May 23, 2002 ______, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 29th	_day of <u>May</u>	, 2002, at Duncan Stephens County, Oklahoma U.S.A
		B. Raghava Reddy
State of Oklahoma)) ss	
County of Stephens)	
Before me personally	appeared said B.	Raghava Reddy and acknowledged the foregoing
instrument to be his free	e act and deed this _	29th day of May , 2002.
Seal		Sheila Deblis
		(Notary Public)
My Commission Expire		004
Commission Number: 0	0014119	
00	1.	
Executed this 25	day of Moy	, 2002, at Houston, Harris County, Texas U.S.A.
	O	Krishna M. R. Krishna M. Ravi
		Krish na M. Ravi
State of Texas)	
County of Harris) ss)	
•	1 1177 1	MD : I I I I I I I I I I I I I I I I I I
		M. Ravi and acknowledged the foregoing instrument
to be his free act and dee	d this 25/a day	y of <u>Y Nay</u> , 2002.
11.50		
Seals 40		Indith of Johle
るるこ		(Notary Public)
The state of		
, ,		

Executed this 29th day of May, 2002, at D	James E. Griffith
State of Oklahoma)	
County of Stephens)	
Before me personally appeared said James E. Construment to be his free act and deed this 29th	
Seal	Sheela Liblis (Notary Public)
My Commission Expires: September 13, 2004 Commission Number: 00014119	
Executed this 29th day of May, 2002, at Du	ncan, Stephens County, Oklahoma U.S.A. Frank Zamora
State of Oklahoma)) ss County of Stephens)	
Before me personally appeared said Frank Zamora and be his free act and deed this day of May, 2	
Seal	Speela Diblo (Notary Public)

Executed this 28th day of May, 2002, at Duncan, Stephens County, Oklahoma U.S.A.
Dr K huko
Dr. K huke. Karen Luke
State of Oklahoma)) ss County of Stephens
County of Stephens)
Before me personally appeared said Karen Luke and acknowledged the foregoing instrument to be his free act and deed this 28th day of May, 2002.
Seal Shiles (Notary Public)
My Commission Expires: September 13, 2004 Commission Number: 00014119
Executed this 29th day of May, 2002, at Duncan, Stephens County, Oklahoma U.S.A. John L. Dennis, Jr.
State of Oklahoma)
County of Stephens)
Before me personally appeared said John L. Dennis, Jr. and acknowledged the foregoing
instrument to be his free act and deed this 29th day of May, 2002.
Seal Sheila Hella (Notary Public)

Executed this 29th	_day of <u>May</u> , 2002	2, at Dungan, Ste	phens County, Oklahoma U.S.A	١.
		K1 4		
		7-9/	Ricky A. Cox	_
State of Oklahoma)			
County of Stephens) ss)			
Before me personally a	ppeared said Ricky A. Co	ox and acknowled	dged the foregoing instrument to	0
be his free act and deed	this 29th day of	May	, 2002.	
Seal		Shei	la Liblis	
		((Notary Public)	-



AUGUST 09, 2002

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Chief Information Officer Washington, DC 20231 www.uspto.gov

HALLIBURTON ENERGY SERVICES CRAIG W. RODDY 2600 SOUTH SECOND STREET DUNCAN, OK 73536-0440

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RECORDATION DATE: 05/31/2002

REEL/FRAME: 012965/0901

NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

REDDY, B. RAGHAVA DOC DATE: 05/29/2002

ASSIGNOR:

RAVI, KRISHNA M. DOC DATE: 05/23/2002

ASSIGNOR:

GRIFFITH, JAMES E. DOC DATE: 05/29/2002

ASSIGNOR:

ZAMORA, FRANK DOC DATE: 05/29/2002

ASSIGNOR:

LUKE, KAREN DOC DATE: 05/28/2002

ASSIGNOR:

DENNIS JR., JOHN L. DOC DATE: 05/29/2002

ASSIGNOR:

COX, RICKY A. DOC DATE: 05/29/2002

012965/0901 PAGE 2

ASSIGNEE:

HALLIBURTON ENERGY SERVICES, INC. 10200 BELLAIRE BOULEVARD HOUSTON, TEXAS 77072

SERIAL NUMBER: 10159590

PATENT NUMBER:

FILING DATE: 05/31/2002

ISSUE DATE:

MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



Form PTO-1595

U.S. DEPARTMENT OF COMMERCE

(Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)	21688 U.S. Patent and Trademark Office
Tab settings	V V V
	arks: Please record the attached original documents or copy thereof.
Name of conveying party(ies):	2. Name and address of receiving party(ies)
B. Raghava Reddy; Krishna M. Ravi; James E. Griffith;	Name: Halliburton Energy Services, Inc.
Frank Zamora; Karen Luke; John L. Dennis, Jr.,	,
Ricky A. Cox	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes	No
3. Nature of conveyance:	
Assignment Merger	10200 Polloiro Poulovard
Security Agreement Change of Nam	Street Address: 10200 Bellaire Boulevard
Other	
05/23/02 (Ravi) 05/28/02 (Luke)	City: Houston State: TX Zip: 77072
Execution Date: 05/29/02 (Reddy; Griffith; Zamora; Dennis, Jr.; Cox)	Additional name(s) & address(es) attached? Yes V No
4. Application number(s) or patent number(s):	0/159/
If this document is being filed together with a new a	polication, the execution date of the application is: 05/23/02
A. Patent Application No.(s)	
Additional number	s attached? Yes No
5. Name and address of party to whom correspondence	e 6. Total number of applications and patents involved:
concerning document should be mailed:	40.00
Name:	7. Total fee (37 CFR 3.41)\$ 40.00
Halliburton Energy Services Internal Address:	Enclosed
	Authorized to be charged to deposit account
	- 8. Deposit account number:
Street Address: 2600 South Second Street	o. Deposit account number.
Street Address.	08-0300
City:_DuncanState:_OK_Zip:_73536-0440	-
DO NOT U	SE THIS SPACE
9. Signature.	
	1
Craig W. Roddy	laig w Rodely 5-30-02
Name of Person Signing	Signature Date

Mail documents to be recorded with required cover sheet information to:

06/11/2002 TDIAZ1 00000166 080300

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Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231 10159590



ASSIGNMENT

Whereas, I/We, B. Raghava Reddy, of Stephens County, Duncan, Oklahoma; Krishna M. Ravi of Harris County, Kingwood, Texas; James E. Griffith, of Stephens County, Duncan, Oklahoma; Frank Zamora of Stephens County, Duncan, Oklahoma; Karen Luke of Stephens County, Duncan, Oklahoma; John L. Dennis, Jr., of Stephens County, Marlow, Oklahoma and Ricky A. Cox, of Stephens County, Comanche, Oklahoma have invented METHODS OF GENERATING GAS IN WELL FLUIDS for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on May 23, 2002 , submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

	Executed this 29th day of May, 2002, at Duncan, Stephens County, Oklahoma U.S.A
	B. Raghava Reddy
	State of Oklahoma)) ss County of Stephens)
	Before me personally appeared said B. Raghava Reddy and acknowledged the foregoing instrument to be his free act and deed this 29th day of May, 2002.
	Seal Sheila Biblis (Notary Public)
	My Commission Expires: September 13, 2004 Commission Number: 00014119
	Executed this 23 day of Moy , 2002, at Houston, Harris County, Texas U.S.A. Krishna M. Ravi
	State of Texas)) ss County of Harris)
	Before me personally appeared said Krishna M. Ravi and acknowledged the foregoing instrument to be his free act and deed this 23rd day of, 2002.
3 200	Seale to Judy A Johle (Notary Public)

Executed this 29th day of May, 2002, at Duncan, Stephens County, Oklahoma U.S.A James E. Griffith
State of Oklahoma)
County of Stephens)
Before me personally appeared said James E. Griffith and acknowledged the foregoing instrument to be his free act and deed this 29th day of, 2002.
Seal Sheela Liblis (Notary Public)
My Commission Expires: September 13, 2004 Commission Number: 00014119
Executed this 29th day of May , 2002, at Duncan, Stephens County, Oklahoma U.S.A. Frank Zamora
State of Oklahoma)) ss County of Stephens)
Before me personally appeared said Frank Zamora and acknowledged the foregoing instrument to be his free act and deed this <u>29th</u> day of May, 2002.
Seal Speele Subles (Notary Public)

Executed this28th	_day of <u>May</u> , 2002		ens County, Oklahoma U.S.A.
•		Dr.	K huke
		Ka	ren Luke
State of Oklahoma County of Stephens)) ss)		
Before me personally a	appeared said Karen Luk	e and acknowledged	d the foregoing instrument to
·	this <u>28th</u> day of		
be mis free act and acce		,	
Seal		Sheila (No	Silis Otary Public)
My Commission Expire Commission Number: 0			
Executed this29th	_day of <u>May</u> , 2002	, at Duncan, Stephen	ns County, Oklahoma U.S.A.
State of Oklahoma)		
) ss		
County of Stephens)		
_	appeared said John L. act and deed this29t		cknowledged the foregoing y, 2002.
Seal		Sheila (No	Hello tary Public)

Executed this 29th	_day of <u>,</u> 20	02, at Dungan, S	tephens County, Oklahoma U.S.A.
		Kill	1. L
		7-9/	Ricky A. Cox
State of Oklahoma)) ss		
County of Stephens)		
Before me personally a	ppeared said Ricky A.	Cox and acknow	edged the foregoing instrument to
be his free act and deed	this 29th day of	f May	_, 2002.
Seal		She	ila Libbo
			(Notary Public)